

QUALITY CERTIFICATE

Product name: PINE SYILVESTRIIS OIL
Quality: Ph.Eur.11.0.
Package: 10 g
Lot No.: GR0664007
Manufacturing date: 06.2024.
Expiry date: 15.07.2027. (DMY)
Anal. No.: 19353H64007

	REQUIRED	MEASURED
Appearance:	colourless or slightly yellow, clear liquid	enyhén sárga, tiszta folyadék
Identity	identical	identical
Density (d_{20}^{20})	0,855-0,875	0,865
Refractive index (n_D^{20})	1,465-1,480	1,470
$[\alpha]_D^{20}$	(-9°)-(-30°)	-12,3
Acid value	max.1,0	0,2
Peroxide value	max.20	3,1
Fatty oils and resinified essential oils	passes test	passes test
Chromatographic profile (GC)	passes test	passes test
alfa-Pinene	32,0-60,0 %	35,9 %
Camphene	0,5-2,0 %	0,9 %
beta-Pinene	5,0-22,0 %	19,9 %
car-3-ene	6,0-18,0 %	15,6 %
beta-Myrcene	1,5-10,0 %	2,0 %
limonene	7,0-12,0 %	10,5 %
beta-Phellandrene	max.2,5 %	0,7 %
p-Cymene	max.2,0 %	0,4 %
Terpinolene	max.4,0 %	3,0 %
beta-Caryophyllene	1,0-6,0 %	4,7 %
Bornil acetate	1,0-4,0 %	2,9 %

The Product complies with the requirements of Ph.Eur.11.0.

Kiállítva: Halásztelek, 2024.07.17.

Nagy Balázs

minőségbiztosítási vezető

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